

INTERNATIONAL SEARCH REPORT

PCT/IB 03/03065

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04N7/30 H03H17/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 H04N H03H G06F G06T

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, COMPENDEX, IBM-TDB

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>HOON PAEK ET AL: "A projection-based post-processing technique to reduce blocking artifact using a priori information on DCT coefficients of adjacent blocks"</p> <p>PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON IMAGE PROCESSING (ICIP) LAUSANNE, SEPT. 16 - 19, 1996, NEW YORK, IEEE, US,</p> <p>vol. 1, 16 September 1996 (1996-09-16), pages 53-56, XP010202592</p> <p>ISBN: 0-7803-3259-8</p> <p>cited in the application abstract</p> <p>page 54, left-hand column, line 5</p> <p>-right-hand column, line 48</p> <p>figure 2</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	1-7

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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G document member of the same patent family

Date of the actual completion of the international search

6 November 2003

Date of mailing of the international search report

14/11/2003

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Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

The present application relates to a digital filter for reducing blocking artifacts in images digital data filtering circuit is able to implement the calculation steps of a discrete transform of a set of 8 original data (w), and calculating an inverse discrete transform of the set of transformed data thus obtained. For this purpose, it comprises a first filtering module (FIlol1) intended to filter the odd transformed data or the 3 odd transformed data items having the highest frequencies in the set of transformed data, and a second filtering module (FILO2) connected to the first filtering module and intended to filter the 2 odd transformed data having the highest frequencies in the set of transformed data.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>PAEK H ET AL: "ON THE POCS-BASED POSTPROCESSING TECHNIQUE TO REDUCE THE BLOCKING ARTIFACTS IN TRANSFORM CODED IMAGES"</p> <p>IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE INC. NEW YORK, US,</p> <p>vol. 8, no. 3, 1 June 1998 (1998-06-01), pages 358-367, XP000767705</p> <p>ISSN: 1051-8215</p> <p>abstract</p> <p>page 358, right-hand column, line 31 - line 38</p> <p>page 359, left-hand column, line 9 - line 26</p> <p>page 361, left-hand column, line 13 -page 363, left-hand column</p> <p>figure 4</p>	1-7
A	<p>LEE B G: "A NEW ALGORITHM TO COMPUTE THE DISCRETE COSINE TRANSFORM"</p> <p>IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, IEEE INC. NEW YORK, US,</p> <p>vol. ASSP-32, no. 6,</p> <p>1 December 1984 (1984-12-01), pages 1243-1245, XP000610343</p> <p>ISSN: 0096-3518</p> <p>the whole document</p>	1-7
A	<p>WANG Z: "FAST ALGORITHMS FOR THE DISCRETE W TRANSFORM AND FOR THE DISCRETE FOURIER TRANSFORM"</p> <p>IEEE TRANSACTIONS ON ACOUSTICS, SPEECH AND SIGNAL PROCESSING, IEEE INC. NEW YORK, US,</p> <p>vol. ASSP-32, no. 4,</p> <p>1 August 1984 (1984-08-01), pages 803-816, XP000610335</p> <p>ISSN: 0096-3518</p> <p>page 808, left-hand column, line 17 -page 809, left-hand column, line 5</p> <p>page 815, line 22 - line 24</p> <p>page 816, line 1 - line 20</p>	1-7